

20010710.qrp v02_n246.qrl.20010710

Date: Tue, 10 Jul 2001 19:03:07 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2246

QRP-L Digest 2246

Topics covered in this issue include:

- 1) [102085] Re: REFLECTIONS II
by "Paul Christensen" <paulc@mediaone.net>
- 2) [102086] Re: 10 Meter QRP Ideas Needed
by Cameron Bailey <kt3a@juno.com>
- 3) [102087] Re: Need antenna guru help - more info concerning
by "Bob Tellefsen" <n6wg@earthlink.net>
- 4) [102088] RE: DX-peditions and milliwatt operators....
by "AI2Q Alex" <ai2q@adelphia.net>
- 5) [102089] Anyone have specs for 2SC2166C?
by N1EU <n1eu@yahoo.com>
- 6) [102090] Pixie on 20 meters
by Michael Bower <bowerm@ix.netcom.com>
- 7) [102091] Re: New Code Testing
by George Gingell <k3tks@u1.abs.net>
- 8) [102092] Re: New CW testing
by "John O. Newell" <jnewell@mediaone.net>
- 9) [102093] Inductor Question
by Norman Young <norman_y@yahoo.com>
- 10) [102094] Re: Inductor Question
by "Mike Yetsko" <myetsko@insydesw.com>
- 11) [102095] SMK-1
by G Brandon Hoyt <preacher102677@juno.com>
- 12) [102096] Re: Pixie on 20 meters
by "Jay Bromley" <w5jay@alltel.net>
- 13) [102097] Re: Welding rebar (was Buzzbox Voltage)
by "John A. Evans - N0HJ" <jaevalns@codenet.net>
- 14) [102098] RE: New CW testing i.e. VHF/UHF is for dummies ? Huh!
by "Chuck Carpenter" <w5usj@globeco.net>
- 15) [102099] Re: Inductor Question
by "Steven Weber" <kd1jv@moose.ncia.net>
- 16) [102100] SATIRE: Has anybody here seen my old friend QRP-L?
by "Paul R. Valko" <prvalko@oakland.edu>
- 17) [102101] ham radio unchanged
by Joel M Denison <hamjoel@juno.com>
- 18) [102102] ZM-2 Tuner Help - Thanks Guys
by "Mark Gustoff" <wo7t@juno.com>
- 19) [102103] RE: SMK-1

- by "Paul Warman" <pswarman@pswarman.screaming.net>
- 20) [102104] Re: Anyone have specs for 2SC2166C?
by "Ingo DK3RED" <dk3red@t-online.de>
- 21) [102105] Re: Pixie on 20 meters
by "Brian" <bmurrey@amexol.net>
- 22) [102106] Fw: QRP xmtr now w/CRYSTAL!!
by "Brian" <bmurrey@amexol.net>
- 23) [102107] MMANA
by John R Kirby <n3aaz-qrp@juno.com>
- 24) [102108] Re: MMANA
by "Bill Jones" <kd7s@psnw.com>
- 25) [102109] Re: ham radio unchanged
by Bill Walker <kd7jzb@mindspring.com>
- 26) [102110] Piedmont Radio Electronics Club Announcement
by "Rod Cerkoney, NØRC" <rod@n0rc.com>
- 27) [102111] Looking for ua757
by ac5ez@webtv.net (Larry)
- 28) [102112] RE: QRP Wall Wart
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 29) [102113] Test Post-Don't Read
by NB6M@aol.com
- 30) [102114] Re: SATIRE: Has anybody here seen my old friend QRP-L?
by David Ragon <dragon50_1@yahoo.com>
- 31) [102115] Re: MMANA
by "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
- 32) [102116] RE: CW Test
by W2SH@aol.com
- 33) [102117] Welding rebar
by ed miller <millered@magnet.fsu.edu>
- 34) [102118] Search engine for QRP-L archives?
by "tbowman@nbn.net" <tbowman@nbn.net>
- 35) [102119] Anyone hear K5DP from Philmont?
by MikeHeit@aol.com
- 36) [102120] RE: Conjugate matching
by <schoon@amgt.com>
- 37) [102121] I Have An Idea
by "Randall Jouett" <rules@bellsouth.net>
- 38) [102122] RE: REFLECTIONS II
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 39) [102123] RE: Conjugate matching
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 40) [102124] Re: CW Test
by "Mark J. Dulcey" <mark@buttery.org>
- 41) [102125] How to unsubscribe? An alternative
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
- 42) [102126] Re: New CW testing i.e. VHF/UHF is for dummies ? Huh!
by Garie Halstead <k8kfj@ntelos.net>
- 43) [102127] K2 Voice Available (Round Two)

by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
44) [102128] TT2 Kits for sale at my cost
by "Mike Morrell" <morrellm@ameritech.net>
45) [102129] Re: MMANA
by "Bill Jones" <kd7s@psnw.com>
46) [102130] Upsizing Transistors??
by <schoon@amgt.com>
47) [102131] Re: CW Test
by Stephan Greene <sgreene@patriot.net>
48) [102132] RE: I Have An Idea
by "AI2Q Alex" <ai2q@adelphia.net>
49) [102133] Re: MMANA
by "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
50) [102134] Aerials 101
by ARDUJENSKI@aol.com
51) [102135] Re: Aerials 101
by "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
52) [102136] Re: I Have An Idea
by "Mike Yetsko" <myetsko@insydesw.com>
53) [102137] RE: Aerials 101
by "Charles Mabbott" <crmabbott@mediaone.net>
54) [102138] Re: [fpqrp] I Have An Idea
by Robert Clark <res03db2@gte.net>
55) [102139] Re: Pixie on 20 meters
by Charlie Panek <charlie_paneke@agilent.com>
56) [102140] Re: I Have An Idea
by "Karl F. Larsen" <k5di@zianet.com>
57) [102141] Re: I Have An Idea
by "laura halliday" <marsgal42@hotmail.com>
58) [102142] Re: I Have An Idea (fwd)
by "Robert P. Okas" <vintage@best.com>
59) [102143] Re: I Have An Idea (fwd)
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
60) [102144] I Have An Idea (fwd)
by "Charles Mabbott" <crmabbott@mediaone.net>
61) [102145] 2M QRP rig Design
by "Steven Weber" <kd1jv@moose.ncia.net>
62) [102146] Re: I Have An Idea
by <igeq100@iupui.edu>
63) [102147] Don't forget -- Cub Foxii Tonight!
by "Jerry McCollom W0MC" <w0mc@club-pre.org>

Date: Mon, 9 Jul 2001 18:48:56 -0400
From: "Paul Christensen" <paulc@mediaone.net>
To: <phil@vaxxine.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102085] Re: REFLECTIONS II

Message-ID: <003701c108c9\$bd6d7340\$7a01a8c0@se.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If Lew did in fact state this opinion concerning Maxwell, I am certain it pertained to Maxwell siding with Doug DeMaw, W1FB over the "Ultimate v. SPC" transmatch debate in which DeMaw concluded that McCoy's use of a dual-section, split-stator capacitor in his Ultimate transmatch was not only unnecessary, but under some loading conditions, the circuit would degenerate into a high-pass filter.

The tale begins back in 1970 when McCoy published "The Ultimate Transmatch," in the July issue of QST (pp. 24-27). Lew's transmatch was similar to the classic C-L-C "T" network except Lew used an expensive, dual-section capacitor at the transmatch input. The effect of the lower input capacitor resulted in a capacitive shunt from the input to circuit ground.

In the early '70s, I believe DeMaw served as a consultant to Murch Electronics who manufactured a commercial version of the Ultimate Transmatch. The increasing cost of the split-stator capacitor was driving up the production costs and subsequently Murch approached DeMaw to find an alternative. DeMaw concluded that the dual-section capacitor was adding no value to the performance of the Ultimate Transmatch. However, in formulating his conclusion, and with a slight twist of components, DeMaw moved the split-stator capacitor to the tuner's output and reconfigured the placement of the lower half of the capacitor such that the tuner's output was not shunted by the capacitance. The shunting occurs *in between* the variable inductor and the series output capacitor and thus the "SPC" transmatch was born.. The effect of this was to produce the harmonic-attenuating effect that McCoy thought he had designed into the "Ultimate" transmatch. The simple act of moving one component to achieve an important design goal was not well received by McCoy. Subsequently, McCoy attacked DeMaw's data in the early '80s and asserted that DeMaw's design was nothing more than the Ultimate transmatch drawn backwards! However, drawing McCoy's tuner backwards and comparing it against DeMaw's SPC yielded subtle mechanical differences, but staggering electrical differences. DeMaw documents his analysis of the Ultimate and SPC tuners in the July, 1980 issue of QST (p. 39).

After several attacks by McCoy which appeared in Worldradio and in the March, 1981 issue of QST (p. 56), Maxwell wanted to clear the air on the issue and published "The Ultimate vs. The SPC Transmatch" in the Technical Correspondence section of the August, 1981 issue of QST (pp. 42-43). Maxwell's analysis was reviewed by the League's then Assistant Technical Editor, Jerry Hall, K1TD.

Maxwell was quite critical of McCoy's assertions and some might say it was the embarrassment of lifetime for McCoy. Nevertheless, McCoy gave a lot to Amateur Radio and despite the design flaw in the Ultimate Transmatch, it still gave many of us the opportunity to operate multiband from a single antenna and at very high power levels. The split-stator capacitor did not go wasted either, for the Ultimate Transmatch could be converted into the SPC tuner at zero cost.

Both McCoy and DeMaw are now gone and I suspect that they've had a chance to shake hands and make peace at the big ham shack in the sky!

73,

-Paul, W9AC

----- Original Message -----

From: "Phil (VA3UX)" <phil@vaxxine.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, July 09, 2001 17:11 PM

Subject: Re: REFLECTIONS II

> At 03:37 PM 7/9/2001 -0500, Mike Branca wrote:

> >I sent this to my friend Jerry but since a thread has started I thought my

> >2 cents worth would certainly help..

> >

> >Jerry, my personal opinion. Maxwell is OTL. I read his book several times

> >and finally sold it at a hamfest. My discussions with Lew McCoy the late

> >W1ICP indicated the he felt that Max was full of crap too. (These were

> >Lew's words).

>

>

> No surprise there Mike. Maxwell's work revealed that Lew's "Ultimate Transmatch" wasn't exactly "ultimate" - it had a few problems. Lew would not have been the best choice for an unbiased opinion of this particular book.

>

> Phil

>

>

> >Again, just my opinion.

> >

> >Mike W3IRZ

>

>

Date: Mon, 9 Jul 2001 19:38:00 -0400
From: Cameron Bailey <kt3a@juno.com>
To: W2SH@aol.com
Cc: qrp-l@Lehigh.EDU
Subject: [102086] Re: 10 Meter QRP Ideas Needed
Message-ID: <20010709.194905.-3808341.1.kt3a@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I was entertained by watching W3TS and AA3SJ pick through a pile of used (minus case) CBs at the Harrisburg hamfest on the fourth of July. The guy was running a special deal for them.....4 for a buck. Lots of filters, knobs, meters, mixers, pa, etc!

kt3a

On Mon, 9 Jul 2001 00:05:51 EDT W2SH@aol.com writes:
> Working over a used CB rig would seem to be an economical and fairly
> simple
> solution to the dearth of 10-meter rigs in kit form.
>
> Charles, W2SH
>

Date: Mon, 9 Jul 2001 17:35:54 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [102087] Re: Need antenna guru help - more info concerning
Message-ID: <MABBJOEABOILMKCJCLFCGENMCIAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Patrick
Shortened dipoles work well in phased arrays.
I use a pair of 55 ft dipoles on 40, 30 and 20m and do just fine.
Very good front to back ratio, and the gain is enough to be quite useful.
73, Bob N6WG

Date: Mon, 9 Jul 2001 20:34:41 -0400
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <gosier@twcnny.rr.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [102088] RE: DX-peditions and milliwatt operators....
Message-ID: <000201c108d8\$1c70d7c0\$df0cf618@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Absolutely George. Any op that stays with the contact until the callsign is copied and the QSO is completed is a pro and considerate.

It's also amazing that sometimes QSB will change, and what started out as nearly impossible copy turns into a FB interesting QSO--perhaps a QRP ragchew.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of George Osier
Sent: Saturday, July 07, 2001 10:28 PM
To: Low Power Amateur Radio Discussion
Subject: DX-peditions and milliwatt operators....

Hello All !!!!

Its interesting to note that when milliwatting that most DX-peditions are VERY interested in making the contact a GOOD one !!! As a example I worked 9H30 this evening running 700 mw and it took about 7 or 8 times with me giving my call till he got the suffix right !! He could have said to heck with the QSO but he kept wanting to get the WHOLE call and this I find to be a sign of a first class op !!!

I understand that when I run under 1 watt that my signal sometimes cannot even be heard above the noise and that its rough sledding for the DX station to copy me at all but I've had many a successful QSO at these ridiculous power levels and I can only think that the operators have GREAT ears and that they are determined to give out a country , island or special event contact to all who call and for this I am VERY grateful !!!!

I tip my hat to the ops at 9H30 and the many others that have worked me with

my tiny milliwatt signals!!!!

73/72s

George , N2JNZ / QRPP

Date: Mon, 9 Jul 2001 17:44:55 -0700 (PDT)
From: N1EU <n1eu@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [102089] Anyone have specs for 2SC2166C?
Message-ID: <20010710004455.24388.qmail@web14606.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hoping someone out there has specs for the 2SC2166C rf power transistor. RF Parts sells it but I haven't been successful getting the info from them. ARRL HB lists the 2SC2166 - anyone know for sure if specs are the same?

Tnx/73,
Barry N1EU

Do You Yahoo!?
Get personalized email addresses from Yahoo! Mail
<http://personal.mail.yahoo.com/>

Date: Sun, 08 Jul 2001 18:49:15 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>, N4LRR <ed_lyon@hotmail.com>, "NoVaQRP@topica.com" <NoVaQRP@topica.com>
Subject: [102090] Pixie on 20 meters
Message-ID: <3B48E36B.3A7FF35E@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anybody know if there is a "pixie" for 20 meters? I have a friend who may want to get started in ham radio and I thought a Pixie would be a good idea. But he lives in a condo so an 80 meter ant is out of the question. But if there is a Pixie on 20, that would work.

My plan: Get him interested. Let him build a kit that works just for the excitement. (That first power up for ANY rig is a thrill.) THEN have him build something bigger. He may want to jump into a K1 but I don't know if that is a good idea or not. (Yes, I've seen Doug Hendricks list and I'll review that but starting with the Pixie will get him something he can HEAR then maybe on to Doug's list for the experience.) I also thought an SW+40 or SW+20 might be a good idea. (Heck, he and I could build an SW+20 side-by-side as I have one waiting in my kit box.)

Any other ideas are certainly welcome.

TIA

Michael N4NMR

--

73 de N4NMR

Michael Bower

Ashburn, VA (near Washington, D.C.)

Date: Mon, 9 Jul 2001 21:21:28 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [102091] Re: New Code Testing
Message-ID: <Pine.BSF.4.33.0107092108420.88064-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Sad part of the New Rules is that everyone is doomed to do it my way.

Take the Test at 5 WPM, get a License, (Technician In My Case) then spend the next 15-20 years re-learning the Code so that you can enjoy it talking to all of your friends on QRP.

Did I also mention the additional re-learning phase between 13 and 20 WPM
:^}

I have absolutley nothing against anyone who starts out at 5 WPM or even No-Code and works their way up.

OTOH, If more of us would take a bit of time to help them when they start, maybe they would not have to take the same hard road to enjoyment of this fine hobby.

How many of you had help getting started? Did you have an Elmer down the Street help you learn the Code? How about a kid next door?

Instead of complaining about the rules, etc. why not go out and find someone who needs a bit of help? Just ONE KID! One Neighbor, One new friend...

.-.-.

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Mon, 09 Jul 2001 21:27:16 -0400
From: "John O. Newell" <jnewell@mediaone.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102092] Re: New CW testing
Message-ID: <3B4A59F4.2F30A9E2@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> Test are now 'fill in the blank' and must be answered
> EXACTLY. Or, you must get a certain number of
> characters in a sequence correct with no errors.

Yes, which means, for example, if (like me) you sometimes bobble numbers, you can pretty much count on getting at

least two, probably three questions out of ten wrong --
"close" doesn't count, it's either RIGHT or it's WRONG.

In that way, even the 5wpm test may be a little harder than
some realize. In real life, on the air, you may get several
chances...the other op may send his/her call several times,
or you can query the other operator. On the ARRL test tapes
I was tested with, they sent the call once, that was it.

72
John
KB1FPM

Date: Mon, 9 Jul 2001 18:49:03 -0700 (PDT)
From: Norman Young <norman_y@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [102093] Inductor Question
Message-ID: <20010710014903.91478.qmail@web11606.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Ok, I know that some of you are tired of the Radio
Shack thread, and I will assume some of the
responsibility for carrying it on with my comments.
For a change of pace, let's try this...

I have been stripping down a couple of old (about 10
years) VCR's for parts, and in both I have found some
small round inductors. Each is about the size of a
grain of large corn and is shaped like a small bead.
There are two leads coming from the bottom. The case
color is light blue, and there is a color code of some
sort that consists of two larger colored dots, one on
each side just above the leads, and two smaller
colored dots on the top. (A few have only one colored
dot on one side and two dots on top.) These do not
appear to use the same color code as standard molded
inductors. I have checked the net and the 1993
handbook, but I can't find anything on them. Anybody
know what I am describing and where I can find the
color code to see what (if anything) I've got?

72,
Norman
KA4PUV

Do You Yahoo!?

Get personalized email addresses from Yahoo! Mail
<http://personal.mail.yahoo.com/>

Date: Mon, 9 Jul 2001 22:01:37 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <norman_y@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [102094] Re: Inductor Question
Message-ID: <000d01c108e4\$44770120\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Years ago I remember seeing a capacitor color code that was based on a 2x3 'grid'. And I do remember seeing old square 'card' caps that had 6 little circle depressions on them in that 2x3 grid with some color dots. I wonder if there was something similar for inductors.

But that was in the 60's...

As to old VCRs... GREAT source for connectors and little shielded cables with what look like micro-motorola plugs and jacks! With RG-174 or similar already molded in!

Not to mention bearings, springs, and clips!

Mike

----- Original Message -----

From: Norman Young <norman_y@yahoo.com>

> I have been stripping down a couple of old (about 10
> years) VCR's for parts, and in both I have found some
> small round inductors. Each is about the size of a
> grain of large corn and is shaped like a small bead.
> There are two leads coming from the bottom. The case
> color is light blue, and there is a color code of some
> sort that consists of two larger colored dots, one on
> each side just above the leads, and two smaller

> colored dots on the top. (A few have only one colored
> dot on one side and two dots on top.) These do not
> appear to use the same color code as standard molded
> inductors. I have checked the net and the 1993
> handbook, but I can't find anything on them. Anybody
> know what I am describing and where I can find the
> color code to see what (if anything) I've got?
>
> 72,
> Norman
> KA4PUV

Date: Mon, 9 Jul 2001 22:07:09 -0400
From: G Brandon Hoyt <preacher102677@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [102095] SMK-1
Message-ID: <20010709.220716.-139943.0.preacher102677@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

C3 Soldered in, AWWWW, YEAH!!!!!!!!!!
Only 535,456 more minutes to go at this rate! ;-)
Any special cautions before I get too far into this little bit of
neetness?

LIC,
G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."
Photographer, Philosopher, Preacher, Pirate, Poet.
DE KG4GVL Clear.

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 9 Jul 2001 21:36:07 -0500
From: "Jay Bromley" <w5jay@alltel.net>
To: <bowerm@ix.netcom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102096] Re: Pixie on 20 meters

Message-ID: <003901c108e9\$13d346a0\$3b9b66a6@alltel.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> (Heck, he and I could build an SW+20 side-by-side as I have one waiting
> in my kit box.)

Michael, I would go for your above idea. You couldn't miss with a Small
Wonder rig and you could be his first contact on it!!

73 de w5jay..

>
> Any other ideas are certainly welcome.
>
> TIA
>
> Michael N4NMR
>
> --
> 73 de N4NMR
> Michael Bower
> Ashburn, VA (near Washington, D.C.)
>
>
>

Date: Mon, 09 Jul 2001 20:54:07 -0600
From: "John A. Evans - N0HJ" <jaevans@codenet.net>
To: unlisted-recipients;; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102097] Re: Welding rebar (was Buzzbox Voltage)
Message-ID: <3B4A6E4F.BF344EAF@codenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Long live JunkYard Wars

72 - john - n0hj

Preston wrote:

> Howdy Steve,
> You are right though about welding being gratifying. It is really cool to
> fuse two pieces of steel together.

Date: Mon, 09 Jul 2001 22:18:11 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: JNewell@goodwinprocter.com, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [102098] RE: New CW testing i.e. VHF/UHF is for dummies ? Huh!
Message-ID: <3.0.2.32.20010709221811.006ac4e4@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:39 PM 7/9/01 -0400, Newell, John O wrote:

>[snip]
>I think that's only partly true. Certainly, you can get on VHF/UHF without
>learning much, and indeed you may forget most of that pretty quickly.
>[snip]

Some of the most intelligent amateurs I've met have no-code technician
licences and operate on the VHF and UHF bands.

It's axiomatic that you can get a tech license and not need morse code.
It's not true by any measure that technical skills are lacking by those
with no-code tech licences who use these bands. Consider that many of the
V/UHF amateur satellites are designed and built by amateurs with Tech
licences. EME requires serious knowledge of RF techniques along with CW
skill.

If you look beyond VHF and UHF appliance type operations on repeaters,
there is extensive evidence of serious technical skill.

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275
Zombie #749, RARA #3, NETXQRP Web Site <http://www.netxqrp.org>

Date: Mon, 9 Jul 2001 23:40:30 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: norman_y@yahoo.com

Cc: qrp-1@lehigh.edu
Subject: [102099] Re: Inductor Question
Message-ID: <200107100411.f6A4Bnc07072@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

VCR inductor codes...

> A few have only one colored dot on one side and two dots on top.

These I know for sure, the two on top are the numerical value and the one on the end is the multiplier, in uHy's. Read it like a resistor. Typically you will find lots of 100 uHy, 22 uHy, 33 uHy.

The ones with a dot on both sides, if one of the colors is gold or silver, these would be .1 or .01 multipliers, or they might be a tolerance code. But knowing these inductors are generally in the uHy range for value, might be able to make sense of it from there. Of course, if you had a AADC L/C II meter, it would take only a few seconds to figure out the code, once you knew the value of one.

72,

Steve, KD1JV in the White Mountains of New Hampshire

"Melt Solder"

<http://www.qsl.net/kd1jv/index.html>

Date: Tue, 10 Jul 2001 00:28:54 -0400 (EDT)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: QRP List <qrp-1@lehigh.edu>
Subject: [102100] SATIRE: Has anybody here seen my old friend QRP-L?
Message-ID: <Pine.OSF.4.21.0107100005060.27134-100000@saturn4.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With appologies to Dick Holler...

Has anybody here seen my old friend QRP-L?
Can you tell me where it's gone?
We've had a lot of bad threads
And it seems the good ones die young,
Folks unsubscribe and they're gone.

Has anybody here seen my old friend QRP-L?
Will the "Rat Shack" thread ev-er die?
Now they're on the Farnsworth,

This is not the CW-L.
Folks unsubscribe and they're gone.

Has anybody here seen my old friend QRP-L?
How about some Foxhunt posts, puh-lease?
I'd even take Dayton Weather
If our group could just stay together.
Folks unsubscribe and they're gone.

Didn't you love the things that it stood for?
Operating at low pow - er.
An' we'll be OT free, someday
I know, almost OT free one day.

Has anybody here seen my old friend QRP-L?
Can you tell me where it's gone?
Thought I'd see a good post once
but two guys called each other 'dunce.'
Guess I'll string a long wire up over the hill.

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics.
Visit the Virtual Ten*Tec Museum at:
<<http://www.acs.oakland.edu/~prvalko>>

Date: Tue, 10 Jul 2001 01:33:38 -0400
From: Joel M Denison <hamjoel@juno.com>
To: qrp-l@lehigh.EDU
Subject: [102101] ham radio unchanged
Message-ID: <20010710.013552.-327161.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

High Y'all
sry to sea so many folk upset with ham radio... it an't changed
really...
The fcc says I gotta do this and learn that and it will let me play
radio....
so I did this and done that and I'm playing radio...
I can build, or buy... I can choose to operate one or more modes and be
mostly an operator... or I can be a contester...or I could geaux into
designing things...

I could join the arrl and get into many activities.... none of this has really changed...

Those who take hamdom and try to make it into more than a hobby are still upset and insisting ham radio is going to the dogs....

I find that all kinds of new and interesting things are now available that weren't there in the early 60's.... like super portable transceivers, great receivers in a little space...more availability of information...

Sumthin for the operator, builder, contester, just like it's allways been, since i've been around hamdom...sum like to keep things simple, sum like things complicated and challanging.... and there is still the same room for both mindsets....and them what be unhappy? I guess they just gonna be upset till all bodies sees things the same way they does...and the hobby is pluralistic... so I guess they is gonna be about as upset as they wants to be....

in the meantime what say the rest of us enjoy what we be doing and go play radio, the way and to the extent it makes up happy... and keep it qrp if conditions permit...and that's ur idea of fun...

y'all be nice to each other now
ke1la joel
in maine...

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 10 Jul 2001 14:13:03 +0800

From: "Mark Gustoff" <wo7t@juno.com>

To: qrp-1@Lehigh.edu

Subject: [102102] ZM-2 Tuner Help - Thanks Guys

Message-ID: <20010710061303.7373.qmail@juno.com>

Content-Type: text/plain; charset="iso-8859-1"

Content-Disposition: inline

Content-Transfer-Encoding: 7bit

MIME-Version: 1.0

Thanks to all the prompt responses from you all over the ZM2 tuner settings and wiring instructions. All is well and on the air. 73, Mark

--

Date: Tue, 10 Jul 2001 07:18:51 +0100

From: "Paul Warman" <pswarman@pswarman.screaming.net>
To: <preacher102677@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [102103] RE: SMK-1
Message-ID: <MABBKIIDPNDFPNFIOFJLGEOCCFAA.pswarman@pswarman.screaming.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lots of attention to detail and don't be distracted by the Internet and e-mail.

Paul
G0odp

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
G Brandon Hoyt
Sent: 10 July 2001 03:07
To: Low Power Amateur Radio Discussion
Subject: SMK-1

C3 Soldered in, AWWWW, YEAH!!!!!!!!!!

Only 535,456 more minutes to go at this rate! ;-)
Any special cautions before I get too far into this little bit of
neetness?

LIC,
G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."
Photographer, Philosopher, Preacher, Pirate, Poet.
DE KG4GVL Clear.

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 10 Jul 2001 11:39:40 +0200
From: "Ingo DK3RED" <dk3red@t-online.de>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [102104] Re: Anyone have specs for 2SC2166C?
Message-ID: <003801c10924\$40356bc0\$1e8f01d9@ingo>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Barry,

> Hoping someone out there has specs for the 2SC2166C rf
> power transistor. RF Parts sells it but I haven't
> been successful getting the info from them. ARRL HB
> lists the 2SC2166 - anyone know for sure if specs are
> the same?

Yes, is the same. But ...

The manufacturers sort their transistors into different gain groups. The 2SC2166 have a DC forward current gain from minimum 35, typically 70 and maximum 180. A "C" as appendix in most cases describes the gain. Unfortunately there are no values for it also in the data sheet on

<http://www.mitsubishichips.com/data/datasheets/hf-optic/hf-opticpdf/ds/sc2166.pdf>

72 de Ingo, DK3RED

E-Mail: dk3red@qsl.net - Homepage: www.qsl.net/dk3red

Date: Tue, 10 Jul 2001 07:58:10 -0400
From: "Brian" <bmurrey@amexol.net>
To: <bowerm@ix.netcom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102105] Re: Pixie on 20 meters
Message-ID: <001001c10937\$97719860\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Mike,

I think the SWL 20 would be a great first rig, especially if he gets the

Elmer 101 information to go along with it. The E101 series used the SWL 40 but the text and reading would be a great help to any new ham.

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
TEN TEC SCOUT @ 5W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

----- Original Message -----

From: "Michael Bower" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, July 08, 2001 6:49 PM
Subject: Pixie on 20 meters

> Does anybody know if there is a "pixie" for 20 meters? I have a friend
> who may want to get started in ham radio and I thought a Pixie would be
> a good idea. But he lives in a condo so an 80 meter ant is out of the
> question. But if there is a Pixie on 20, that would work.
>
> My plan: Get him interested. Let him build a kit that works just for
> the excitement. (That first power up for ANY rig is a thrill.) THEN
> have him build something bigger. He may want to jump into a K1 but I
> don't know if that is a good idea or not. (Yes, I've seen Doug
> Hendricks list and I'll review that but starting with the Pixie will get
> him something he can HEAR then maybe on to Doug's list for the
> experience.) I also thought an SW+40 or SW+20 might be a good idea.
> (Heck, he and I could build an SW+20 side-by-side as I have one waiting
> in my kit box.)
>
> Any other ideas are certainly welcome.
>
> TIA
>
> Michael N4NMR
>
> --
> 73 de N4NMR
> Michael Bower
> Ashburn, VA (near Washington, D.C.)
>
>
>

Date: Tue, 10 Jul 2001 08:34:41 -0400
From: "Brian" <bmmurray@amexol.net>
To: "pigs" <fpqrp-1@mpna.com>, "QRP-L" <qrp-1@lehigh.edu>
Subject: [102106] Fw: QRP xmtr now w/CRYSTAL!!
Message-ID: <000d01c1093c\$b17299d0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does this interest anyone?

From: "Bill" <ARS--KC8BCR@webtv.net>
Newsgroups:
Sent: Monday, June 11, 2001 1:40 PM
Subject: QRP xmtr now w/CRYSTAL!!

> By popular demand, we decided to purchase a bulk quantity of new
> transmitting crystals from JAN Crystals in Florida to offer along with
> our *PEANUT WHISTLE TWO* 40 meter QRP CW transmitter. We've chosen the
> internationally recognized QRP frequency of 7.040 MHz. We are selling
> these crystals AT COST with the purchase of any "Peanut Whistle Two"
> transmitter. These are assembled transmitters and more details along
> with a photo can be seen at our website address below. The cost of a
> PW-2 with crystal is only \$29.95. (Plus \$6.95 shipping and handling.)
> Sorry - no individual crystal sales.
>
> Sorry we don't have it up on the website yet, but we're still looking
> for a replacement webmaster.
>
> 73, Bill - WA8MEA @ Jackson Co., MI QRP Club station - KC8BCR
> <http://qth.com/dwm>
>

Date: Tue, 10 Jul 2001 07:43:04 -0400
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [102107] MMANA
Message-ID: <20010710.074403.-167735.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0

Content-Type: text/plain
Content-Transfer-Encoding: 7bit

WOW !

Good 'STUFF

Tnx for the tip . . .

>
>From: "Bill Jones" <kd7s@psnw.com>
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Date: Fri, 6 Jul 2001 09:02:08 -0700
>Subject: Freeware Antenna Analyzer Software
>
>MMANA can be downloaded from the following URL.
>
><http://www.geocities.com/mmhamsoft/mmana/index.htm>
>

Talk about 'crankin out some >L< / >C< Networks. . .
DOUBLE WOW WOW ! !

John
N3AAZ
FM 19 xa

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 10 Jul 2001 07:09:23 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: <n3aaz-qrp@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102108] Re: MMANA
Message-ID: <003b01c10949\$f1bf8e50\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi John,

That's what I though when I saw it WOW!

I've been trying to model a multi-band dipole using strategically placed quarter wave decoupling stubs (can you say Lattin?) to electrically isolate the outer sections of the antenna. It's been an adventure and I'm learning but I sure have a long way to go.

=====

Bill Jones - <><
Sanger, California

=====

----- Original Message -----

From: "John R Kirby" <n3aaz-qrp@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, July 10, 2001 4:43 AM
Subject: MMANA

>
> WOW !
>
> Good 'STUFF
>
> Tnx for the tip . . .
>
> >
> >From: "Bill Jones" <kd7s@psnw.com>
> >To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> >Date: Fri, 6 Jul 2001 09:02:08 -0700
> >Subject: Freeware Antenna Analyzer Software
> >
> >MMANA can be downloaded from the following URL.
> >
> ><http://www.geocities.com/mmhamsoft/mmana/index.htm>
> >
>
> Talk about 'crankin out some >L< / >C< Networks. . .
> DOUBLE WOW WOW ! !
>
> John
> N3AAZ
> FM 19 xa
>
> -----
> GET INTERNET ACCESS FROM JUNO!
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> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

Date: Tue, 10 Jul 2001 14:30:10 +0000
From: Bill Walker <kd7jzb@mindspring.com>
To: qrp-l@Lehigh.EDU
Subject: [102109] Re: ham radio unchanged
Message-ID: <01071014301000.011111@deneb.localdomain>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Your a never ending perl of wisdom, Joel.
God bless you...

72,

On Tuesday 10 July 2001 05:33 am, you wrote:

> High Y'all
> sry to sea so many folk upset with ham radio... it an't changed
> really...
> The fcc says I gotta do this and learn that and it will let me play
> radio....
> so I did this and done that and I'm playing radio...
> I can build, or buy... I can choose to operate one or more modes and be
> mostly an operator... or I can be a contester...or I could geaux into
> designing things...
> I could join the arrl and get into many activities.... none of this
> has really changed...
> Those who take hamdom and try to make it into more than a hobby are still
> upset and insisting ham radio is going to the dogs....
> I find that all kinds of new and interesting things are now available
> that weren't there in the early 60's.... like super portable
> transceivers, great receivers in a little space...more availability of
> information...
> Sumthin for the operator, builder, contester, just like it's allways
> been, since i've been around hamdom...sum like to keep things simple,
> sum like things complicated and challanging.... and there is still the
> same room for both mindsets....and them what be unhappy? I guess they
> just gonna be upset till all bodies sees things the same way they
> does...and the hobby is pluralistic... so I guess they is gonna be about
> as upset as they wants to be....
> in the meantime what say the rest of us enjoy what we be doing and
> go play radio, the way and to the extent it makes up happy... and keep it
> qrp if conditions permit...and that's ur idea of fun...
> y'all be nice to each other now
> kella joel
> in maine...
> -----

> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

--

Bill Walker - KD7JZB
<http://www.qsl.net/kd7jzb/>

Date: Tue, 10 Jul 2001 08:29:09 -0600
From: "Rod Cerkoney, N0RC" <rod@n0rc.com>
To: <ncarc@qth.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Elecraft-list" <elecraft@qth.net>
Subject: [102110] Piedmont Radio Electronics Club Announcement
Message-ID: <003f01c1094c\$af79e3d0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Today I'm excited and proud to announce a new club. Much need to be done but here are the "founding" announcements:

73, Rod N0RC

--

Club Pre Organizational Guidelines

Draft Proposal 4/25/2001

Rod Cerkoney, Founder

Piedmont Radio Electronics Club

--

Club Pre -- The Joy of Radio

A club for the "Radio Active Ham" in Northern Colorado,
Wyoming, Nebraska and Kansas

--

A club formed to serve those interested in the "joy of radio and radio electronics", In and around the Rocky Mountain quad-state region of Colorado, Wyoming and Western Nebraska and NE Kansas.

OUR MISSION

Enjoy Radio Electronics Activities, and encourage homebuilt equipment (Kits or otherwise.) Principally HF QRP but all aspects of radio electronics are welcome activities of the club,

OUR ORGANIZATION/OPERATION PHILOSOPHY

1. Organized like the NorCal QRP Club, No meetings, minutes, formality....
2. Like the Adventure Radio Society many of our activities will be held outside, possibly remote areas.
3. From the "original" Hewlett-Packard we borrow: "the next bench" philosophy
4. Use the internet like another Amateur Radio Band, starting with www.club-pre.org.

73, Rod NØRC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

Date: Tue, 10 Jul 2001 10:18:39 -0500 (CDT)
From: ac5ez@webtv.net (Larry)
To: qrp-l@lehigh.edu
Subject: [102111] Looking for ua757
Message-ID: <18186-3B4B1CCF-2578@storefull-111.iap.bryant.webtv.net>

Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Looking for a chip , the Fairchild UA757 IC ,(goes in a cubic astro 103)
.Anyone have one email direct.
Thanks

K1zw
Larry
Qcwa

Date: Tue, 10 Jul 2001 11:32:14 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102112] RE: QRP Wall Wart
Message-ID: <078F21595FA7D411B87B00805FA728E64A48E3@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="windows-1252"

I have been using laptop PC switching power supplies for a long time and no
hash and cheap if you look around.

Jerry
W3CDE

-----Original Message-----
From: lhlousek [mailto:lhlousek@nvhbell.net]
Sent: Monday, July 09, 2001 1:49 PM
To: Low Power Amateur Radio Discussion
Subject: QRP Wall Wart

I recently got a 12V 1.25A regulated wall wart from Jameco. (catalog
p.n.161533, \$13.95). It is small (~2.9 x 1.6 x 1.6"), very light (~6.5
oz)
and has a 6' cord with 2.1 x 5.5 mm coaxial connector. Its light weight
indicates that it is a swticher. They list a number of similar small
light-
weight regulated wall warts with various voltages and current
capacities.

On a scope it showed 20mv spikes at about 55kHz under no load and 30mv ripple at about 120kHz under a 1/2 amp load. I've been using it with my K1 and have not detected any hash on 40 or 20m using my home dipoles. It remains to be seen how well it works when using portable antennas and other QRP rigs that may not be as immune to supply hash.

W7DZN

Date: Tue, 10 Jul 2001 11:58:01 EDT
From: NB6M@aol.com
To: qrp-l@lehigh.edu
Subject: [102113] Test Post-Don't Read
Message-ID: <51.e06d6a0.287c8009@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Test

Date: Tue, 10 Jul 2001 09:03:47 -0700 (PDT)
From: David Ragon <dragon50_1@yahoo.com>
To: prvalko@oakland.edu, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102114] Re: SATIRE: Has anybody here seen my old friend QRP-L?
Message-ID: <20010710160347.55341.qmail@web13808.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Paul, I have been trying to unsubscribe for a while now. can't seem to get it to work.
nothing for me here.

dave

--- "Paul R. Valko" <prvalko@oakland.edu> wrote:
>
> With appologies to Dick Holler...
>
> Has anybody here seen my old friend QRP-L?
> Can you tell me where it's gone?
> We've had a lot of bad threads
> And it seems the good ones die young,
> Folks unsubscribe and they're gone.

>
> Has anybody here seen my old friend QRP-L?
> Will the "Rat Shack" thread ev-er die?
> Now they're on the Farnsworth,
> This is not the CW-L.
> Folks unsubscribe and they're gone.
>
> Has anybody here seen my old friend QRP-L?
> How about some Foxhunt posts, puh-lease?
> I'd even take Dayton Weather
> If our group could just stay together.
> Folks unsubscribe and they're gone.
>
> Didn't you love the things that it stood for?
> Operating at low pow - er.
> An' we'll be OT free, someday
> I know, almost OT free one day.
>
> Has anybody here seen my old friend QRP-L?
> Can you tell me where it's gone?
> Thought I'd see a good post once
> but two guys called each other 'dunce.'
> Guess I'll string a long wire up over the hill.
>
>
> 73! =paul= W8KC
> Collector of Ten*Tecs and other fine plastics.
> Visit the Virtual Ten*Tec Museum at:
> <<http://www.acs.oakland.edu/~prvalko>>
>
>

Do You Yahoo!?
Get personalized email addresses from Yahoo! Mail
<http://personal.mail.yahoo.com/>

Date: Tue, 10 Jul 2001 17:50:06 +0100
From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [102115] Re: MMANA
Message-ID: <000901c10960\$770aee40\$a1c7883e@duron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Well I downloaded it but it's fairly Greek to me. I wonder if some kind antenna guru could run a short course on QRP-L on this software?

Let me suggest a starting point.....

I have a half wave CB vertical on a pole at about 12 feet off the ground (it was less than a quid at a Tandy closing down sale!). Suppose it's being operated on 20m. What do I plumb into MMANA to get some predictions about this antenna?

I'm sure this software could provide a lot more entertainment and educational value than some recent threads :-)

Kind regards
Tony - G4WIF

----- Original Message -----

From: "John R Kirby" <n3aaz-qrp@juno.com>

>
> WOW !
>
> Good 'STUFF
>
> Tnx for the tip . . .
>
> >
> >From: "Bill Jones" <kd7s@psnw.com>

> >
> >MMANA can be downloaded from the following URL.
> >
> ><http://www.geocities.com/mmhamsoft/mmana/index.htm>
>

Date: Tue, 10 Jul 2001 12:57:56 EDT
From: W2SH@aol.com
To: qrp-l@lehigh.edu
Cc: aa4lr@arrl.net
Subject: [102116] RE: CW Test

Message-ID: <11.16de50ac.287c8e14@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

On 9 July 01 at 1516:52 EDT, Bill Coleman, AA4LR, wrote:

>At 13 wpm, you have to be able to just hear the sound, and write down the
>character. The FCC knew this. That's why it set the bar at 13 wpm, rather
>than the more rational 10 wpm. (A 5-10-20 wpm progression would
>certainly been more logical.

I fully agree that such a progression would have been best. I don't want to comb through back issues of QST, and so will rely on memory. The code test was 10 wpm, both send and receive, until sometime in the latter half of the 1930s. I believe the ARRL wanted this increased to 15 wpm. The FCC either wanted it left at 10 wpm, or perhaps offered 12 wpm as a counter proposal. Between the two, a deal was struck at 13 wpm.

Incidentally, the international treaty, to which the US is a signatory, specifies that radio amateurs must demonstrate code proficiency, BOTH SENDING AND RECEIVING, in order to operate on frequencies below 30 MHz. I've never understood why the sending requirement disappeared (like other requirements affecting the amateur radio service, e.g., callsigns with a numerical geographic designator, it may have originally gone to lighten the FCC's workload). At any rate, the sending requirement's omission certainly suggests that the US is in violation of its treaty obligation.

Charles, W2SH

Date: Tue, 10 Jul 2001 13:00:36 -0400
From: ed miller <millered@magnet.fsu.edu>
To: qrp-l@Lehigh.edu
Subject: [102117] Welding rebar
Message-ID: <4.3.2.7.2.20010710125902.00b34780@magnet.fsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Preston is right about the welding of re-bar. It does not need to be welded in order to do its job of reinforcing concrete, wiring it together is fine. Wiring is also strong as 40' long cages can be assembled and put in place. If welding must be done then pre-heating and the use of 7018 rods will do the job, but larger re-bar is usually used.

This thread is much more enjoyable than Conjugate Matches, but not as enjoyable as conjugal visits.

Date: Tue, 10 Jul 2001 13:07:13 -0400
From: "tbowman@nbn.net" <tbowman@nbn.net>
To: qrp-l@lehigh.edu
Subject: [102118] Search engine for QRP-L archives?
Message-ID: <184672001721017713859@nbn.net>
MIME-Version: 1.0
Content-type: text/plain; charset=iso-8859-1

How do I search the QRP-L archives for a specific subject?

73,

tom, WA3REY

Date: Tue, 10 Jul 2001 13:11:32 EDT
From: MikeHeit@aol.com
To: <qrp-l@lehigh.edu>
Subject: [102119] Anyone hear K5DP from Philmont?
Message-ID: <4b.df2ac1a.287c9145@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I've not been able to listen as much as I wanted to and have not heard K5DP from Philmont. Anyone hear him?

73 de Mike, N0S0
QRP-L #486

In a message dated Mon, 25 Jun 2001 12:08:39 PM Eastern Daylight Time,
"Miller, Mark G" <mark.miller@mcaap.army.mil> writes:

<< K5DP will be operating from the trail at the Philmont Scout Ranch from July 1 through 11. Philmont is located in northern New Mexico near Cimarron. It is in Colfax County, grid square DM76. I will be operating in the evenings as time permits.... >>

Date: Tue, 10 Jul 2001 10:18:05 -0700
From: <schoon@amgt.com>
To: <qrp-1@Lehigh.EDU>, <ac5ez@webtv.net>
Subject: [102120] RE: Conjugate matching
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BD-010710171805Z-1482@ag-basalt-pxy.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

"When the experts disagree a wise person will create their own experiments!!"

>-----
>From: ac5ez@webtv.net[SMTP:ac5ez@webtv.net]
>Sent: Monday, July 09, 2001 2:17 PM
>To: Low Power Amateur Radio Discussion
>Subject: Conjugate matching
>
>"When the experts disagree a wise person will suspend judgement "
>Bertrand Russell
>Mathimatician
>
>K1zw
>Larry
>Qcwa
>
>
>

Date: Tue, 10 Jul 2001 12:20:06 -0500
From: "Randall Jouett" <rules@bellsouth.net>
To: <qrp-1@Lehigh.EDU>, <fpqrp-1@mpna.com>
Subject: [102121] I Have An Idea
Message-ID: <02e501c10964\$dd7fbbc0\$6f084ed8@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Folks,

I have an idea, and I'd like your opinion on this subject. Some of my friends on this list have asked that I bring this subject to the list and think it most definately has merit. They also told me that I worry to much about being flamed :^). Ok. I'll give this a shot, but if the flame wars start up over a message like this, then this will absolutely be the last time I post a technical message to this list. I can already hear the cheers :^).

Basically, I've been thinking about using a computer and DSP to detect weak signals. What I'm thinking about doing is using a differential sampling technique. That is, the receiver would sample the frequency a few times, convert it to digital, numeric data, and store it in a hash table where it can be compared against other samples. The first sample would be subtracted from the second sample, and if there is a big enough difference, we have signal. If not, we don't. Also, the computer could be programed to compare incoming signals against known database of valid language, and if the signal is not strong enough, you might be able to extrapolate the data and still build a complete sentence. Not only that, but with proper timing techniques, you'd think you'd be able to still tell what is being sent even with minute changes in the signal. I'm even thinking about using the data as an input to a neural network and training the net to copy CW, and it might also be able to help out with data extrapolation.

A system like this should be able to copy a CW signal that's just above or even slightly below the noise floor :^). A great application would be using the setup to copy transmitting space craft that has left the solar system, and it could also shine when used with other radio-astronomy techniques. Oh, and it should work really, really well for QRPpppp work, too :^).

Now, let's see how many attacks and flames I get on this message. This is the kind of stuff that we should and have to be talking about here if we want to retain our frequencies, yet some of you can only think about out doing posters and trying to one-up them so that you look superior. If this continues, messages like this one will cease to exist on QRP-L, other reflectors, and on the air. BTW, this is the kind of stuff we are talking about in private e-mail.

If you have something negative to say about this idea -- and I'm sure that some of you will! -- then please try to use a little tact for a change and try not to insult me too much. Just picture yourself talking to me in person and ask yourself if you would say these things to my face. Maybe that will help.

Randy

--

HAMateur Radio: AB5NI

Date: Tue, 10 Jul 2001 13:20:05 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [102122] RE: REFLECTIONS II
Message-ID: <125490A005E3D3118C9C00805FC743CC027E2E7F@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

<http://www.sfw.org/bulletin/articles/thor.htm>

A lucid explanation of why books don't stay in print as long--do the math!

--Zack W1VT

Date: Tue, 10 Jul 2001 12:20:41 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'schoon@amgt.com'" <schoon@amgt.com>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [102123] RE: Conjugate matching
Message-ID: <E78D8A9D6762D411B5440008C791D4AA04A49C9E@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

"Great minds think alike....."

("But fools seldom disagree!")

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: schoon@amgt.com [SMTP:schoon@amgt.com]
Sent: Tuesday, July 10, 2001 12:18 PM
To: Low Power Amateur Radio Discussion
Subject: RE: Conjugate matching

"When the experts disagree a wise person will create their own experiments!!"

>-----

>From: ac5ez@webtv.net[SMTP:ac5ez@webtv.net]
>Sent: Monday, July 09, 2001 2:17 PM
>To: Low Power Amateur Radio Discussion
>Subject: Conjugate matching

>

>"When the experts disagree a wise person will suspend judgement "

>Bertrand Russell

>Mathimatician

>

>K1zw

>Larry

>Qcwa

>

>

>

Date: Tue, 10 Jul 2001 13:30:54 -0400
From: "Mark J. Dulcey" <mark@buttery.org>
To: W2SH@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102124] Re: CW Test
Message-ID: <3B4B3BCE.81D6CF92@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

W2SH@aol.com wrote:

>

> Incidentally, the international treaty, to which the US is a signatory,
> specifies that radio amateurs must demonstrate code proficiency, BOTH SENDING
> AND RECEIVING, in order to operate on frequencies below 30 MHz. I've never
> understood why the sending requirement disappeared (like other requirements

> affecting the amateur radio service, e.g., callsigns with a numerical
> geographic designator, it may have originally gone to lighten the FCC's
> workload). At any rate, the sending requirement's omission certainly
> suggests that the US is in violation of its treaty obligation.

The sending requirement did indeed go to ease the burden of the testing officials - notably to make it unnecessary for the testing officials to know Morse code. Also, experience showed that people who were capable of passing the receiving test also passed the sending test with no difficulty. (The sending test consisted of tapping out some text, handed to you by the examiner, until he was satisfied that you knew how. You normally only had to send a few words.) Some handicapped people were exceptions; they were allowed to take the sending test with special equipment, rather than the standard FCC straight keys.

Originally, you had to passing the sending test with a straight key - no bugs, keyers, or keyboards allowed. Later, they allowed bugs, but you had to provide them; the FCC offices didn't have any. I don't think electronic keyers have ever been permitted for the sending test; it was eliminated before that became a big issue. And keyboards have certainly always been right out.

I remember taking my General and Advanced tests in New York City, back in 1970. You sat in very hard wooden chairs. There was an ancient machine in the front of the room that took paper tape; that was the code sender. Each desk had a basic straight key attached to it for the sending test.

When I took my Extra test in Boston in 1983, things had changed. The code test was recorded on a cassette tape, and there was no sending test. And I don't think the chairs were as uncomfortable. The VE system came in not too long after that.

Date: Tue, 10 Jul 2001 09:41:29 -0800
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
To: dragon50_1@yahoo.com, "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [102125] How to unsubscribe? An alternative
Message-ID: <3B4B3E49.6674FF9E@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Dave,

Send a message to:

listserv@lehigh.edu

in the body:

UNSUBSCRIBE QRP-L

Use nothing in the subject.

=====

However....see below

Subject: How to unsubscribe? An alternative

You might consider using the command

set qrp-l mail postpone

send it to listserv@lehigh.edu

That way you can read the mail via the URL web page at
<http://listserv.lehigh.edu/lists/Archives/qrp-l/date.html>
if you want and you can still post to the list.

If you unsubscribe, you cannot post.

I think you will like that method of stopping the mail.

To restart mail just send
set qrp-l mail ack
to listserv@lehigh.edu

I use this all the time. Works great!!

Good luck.

73, Jim
Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - <http://www.qsl.net/al7fs/>

Date: Tue, 10 Jul 2001 17:41:56 +0000
From: Garie Halstead <k8kfj@ntelos.net>
To: Chuck Carpenter <w5usj@globeco.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102126] Re: New CW testing i.e. VHF/UHF is for dummies ? Huh!

Message-ID: <3B4AF814.75EA8196@ntelos.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Monday, 09 July 2001, Chuck Carpenter wrote:

> Some of the most intelligent amateurs I've met have no-code technician
> licences and operate on the VHF and UHF bands.

I've also had the same experience here Chuck. However, you and I both know that VHF/UHF and CW go together like bread & butter. It's a great marriage. Yet, I can come away from a VHF Contest weekend with only a handful of CW Qs. I hear many marginal SSB signals that could be completed contacts had those people had only been able to switch modes. The sad fact is ... they can't. Of course, CW is also the preferred mode for Aurora too.

It's very frustrating for most of us the amount of no code skills found on those bands. Why would anyone drive a Pinto around a Race Track when they could drive a Porsche??? <-- OK, bad analogy. HI

Having said that ... I fully realize that we must each enjoy the hobby in our own way. But doggone it, more CW on VHF would sure be nice.
:-)

72 //Gary *K8KFJ*

Date: Tue, 10 Jul 2001 10:56:01 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: Elecraft mail list <elecraft@qth.net>, QRP-L <qrp-l@lehigh.edu>, GQRP <gqrp@egroups.com>
Subject: [102127] K2 Voice Available (Round Two)
Message-ID: <3B4B41B1.B6EFCFE5@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

We have fixed the install problem with our K2 Voice program (we hope!) Install Shield has given us a temporary work around for installing K2 Voice on W95/98 and NT systems. (W2000 systems installed it OK.)

It is now available for free download at:
http://www.elecraft.com/k2_remote.htm

K2 Voice provides detailed voice feedback for K2 users who can not easily see its display. It runs on a PC connected to the K2 via RS-232 and requires the KIO2 option for the K2.

73,
Eric WA6HHQ

Date: Tue, 10 Jul 2001 10:56:32 -0700
From: "Mike Morrell" <morrellm@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [102128] TT2 Kits for sale at my cost
Message-ID: <100701191.39390@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain

For what it is worth, I "collected" for lack of a better term, five (5) TT2 kits. Includes the Xtal (7. 040) coils, all parts, PCB, etc. except the tuna can <grin> I am NOT a dealer, just another homebrewer who buys 5 of everything <GRIN>. Need to sell these for what I have into them. The XTALS alone (ICM) were \$ 18.95 each. So need at a minimum \$28.00 + \$ 3.00 postage to the CONUS.

If interested send me some email. I'll include a copy of the latest (rev B) docs.

72 de Mike K8KE

Date: Tue, 10 Jul 2001 11:23:38 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: <tony@g4wif.fsnet.co.uk>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [102129] Re: MMANA
Message-ID: <006b01c1096d\$71c42610\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Tony,

There are numerous example antennas provided with the software. I suggest you start with Gp40.mma under the HF simple folder. Download and print the xxxxx.txt files to help you get started.

=====

Bill Jones - <><
Sanger, California

=====

----- Original Message -----

From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, July 10, 2001 9:50 AM
Subject: Re: MMANA

> Well I downloaded it but it's fairly Greek to me. I wonder if some kind
> antenna guru could run a short course on QRP-L on this software?

>

> Let me suggest a starting point.....

>

> I have a half wave CB vertical on a pole at about 12 feet off the ground
> (it was less than a quid at a Tandy closing down sale!). Suppose it's
> being operated on 20m. What do I plumb into MMANA to get some
> predictions about this antenna?

>

> I'm sure this software could provide a lot more entertainment and
> educational value than some recent threads :-)

>

> Kind regards

> Tony - G4WIF

>

>

> ----- Original Message -----

> From: "John R Kirby" <n3aaz-qrp@juno.com>

>

>

>

> >

> > WOW !

> >

> > Good 'STUFF

> >

> > Tnx for the tip . . .

> >

> > >

> > >From: "Bill Jones" <kd7s@psnw.com>

>

> > >

> > >MMANA can be downloaded from the following URL.

> > >
> > ><http://www.geocities.com/mmhamsoft/mmana/index.htm>
> >
>

Date: Tue, 10 Jul 2001 11:35:06 -0700
From: <schoon@amgt.com>
To: <qrp-1@Lehigh.EDU>
Subject: [102130] Upsizing Transistors??
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BD-010710183506Z-1485@ag-basalt-pxy.amgt.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks for reading!!

I'm trying to 'upsized' to a transistor that can handle a larger output than what is being used in a circuit. The circuit uses a 2N3055 transistor and I was wondering how do I determine another transistor for the circuit that can handle a larger output... In case you are wondering, it's for an DC-AC inverter.... Yes, the rest of the circuitry can handle an increase in output from a 'bigger' transistor.

Thanks!

.mark

Date: Tue, 10 Jul 2001 14:37:39 -0400 (EDT)
From: Stephan Greene <sgreene@patriot.net>
To: "Mark J. Dulcey" <mark@buttery.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102131] Re: CW Test
Message-ID: <Pine.LNX.4.10.10107101420040.21359-100000@tzion.greene.lan>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 10 Jul 2001, Mark J. Dulcey wrote:

> I remember taking my General and Advanced tests in New York City, back
> in 1970. You sat in very hard wooden chairs. There was an ancient
> machine in the front of the room that took paper tape; that was the code

> sender. Each desk had a basic straight key attached to it for the
> sending test.

Houston St? I took my General and Advanced tests there in, oh, in 1972 & 1975. I recall the CW exam sent this LONG string of "V's", just about lulled me into a trance and when the test started and I darn near jumped! I don't recall the sending key, though.

72
Steve

Stephan A. Greene sgreene@patriot.net
HAM: KA1LM@amsat.org QRP-L #232 Grid FM18hx 38 59'83.33"N 77 23'6.15"W

Date: Tue, 10 Jul 2001 14:35:30 -0400
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <rules@bellsouth.net>, "'Low Power Amateur Radio Discussion'" <qrp-
l@Lehigh.EDU>
Subject: [102132] RE: I Have An Idea
Message-ID: <000001c1096f\$19642d60\$df0cf618@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Randy:

Although not quite the same as your idea, there's an interesting signal-analysis article in the latest issue of QEX (July/August) authored by VE7DXR, Nick Hall-Patch. He discusses his use of a PC-driven agile receiver that works with data collection software that he wrote. His system records signal strengths of BC stations, and he uses the collected long-term data to analyze the effects of sunrise propagation at 160 meters.

You might also want to look into the published work of KA9Q, Phil Karn. I believe he wrote some DSP code--for the first T.I TMS320 processors--that dug out slow-speed CW from beneath the noise. I recall him mentioning that NASA was impressed with his work when he demonstrated recovery of data from one of the early solar or Venus probes.

My own personal feeling is that the subject you suggest would be of benefit *if* the e-mail participants explained the algorithms in language that any ham on QRP-L could understand. Similarly, if any participants in your

suggested QRP-L thread could share how they go about coding those algorithms, in a way that the rest of us can comprehend without being C-language codesmiths, that would be of great value in understanding the mind of a programmer and the techniques that are used.

By the way, I'm an avid CW op. As such, I've always looked on with interest at various hw/software approaches to copying CW, and can't see why anyone would want to machine-process make-break keying. There are so many far superior ways of sending data by radio. Also, has anyone seen any software yet that can copy make-break CW as effectively as a skilled human in the face of weak signals, QRM, static crashes, and noise?

Personally, I'd likely be most interested in the hardware side of such a project. Would a PC's 16-bit soundcard A/D provide enough bits of resolution for your processing concept? What are some other limiting factors of processing the actual noise? Is there sufficient CPU "horsepower" in a fast Pentium box to do all the post-DSP processing? Is TAPR or AMSAT already doing anything along the line of what you suggest?

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Randall Jouett

Sent: Tuesday, July 10, 2001 1:20 PM

To: Low Power Amateur Radio Discussion

Subject: I Have An Idea

Hey Folks,

I have an idea, and I'd like your opinion on this subject. Some of my friends on this list have asked that I bring this subject to the list and think it most definately has merit. They also told me that I worry to much about being flamed :^). Ok. I'll give this a shot, but if the flame wars start up over a message like this, then this will absolutely be the last time I post a technical message to this list. I can already hear the cheers :^).

Basically, I've been thinking about using a computer and DSP to detect weak signals. What I'm thinking about

doing is using a differential sampling technique. That is, the receiver would sample the frequency a few times, convert it to digital, numeric data, and store it in a hash table where it can be compared against other samples. The first sample would be subtracted from the second sample, and if there is a big enough difference, we have signal. If not, we don't. Also, the computer could be programed to compare incoming signals against known database of valid language, and if the signal is not strong enough, you might be able to extrapolate the data and still build a complete sentence. Not only that, but with proper timing techniques, you'd think you'd be able to still tell what is being sent even with minute changes in the signal. I'm even thinking about using the data as an input to a neural network and training the net to copy CW, and it might also be able to help out with data extrapolation.

A system like this should be able to copy a CW signal that's just above or even slightly below the noise floor :^). A great application would be using the setup to copy transmitting space craft that has left the solar system, and it could also shine when used with other radio-astronomy techniques. Oh, and it should work really, really well for QRPpppp work, too :^).

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If you have something negative to say about this idea -- and I'm sure that some of you will! -- then please try to use a little tact for a change and try not to insult me too much. Just picture yourself talking to me in person and ask yourself if you would say these things to my face. Maybe that will help.

Randy

--

HAMateur Radio: AB5NI

Date: Tue, 10 Jul 2001 19:44:48 +0100
From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [102133] Re: MMANA
Message-ID: <001c01c10970\$68e66000\$58c7883e@duron>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bill,
Things are worse than you think. I did read the information and it
didn't make sense even then! More help is needed for us chaps that never
took "aerials 101".

Kind regards
Tony - G4WIF

----- Original Message -----
From: "Bill Jones" <kd7s@psnw.com>

> Tony,
>
> There are numerous example antennas provided with the software. I
suggest
> you start with Gp40.mma under the HF simple folder. Download and
print the
> xxxxx.txt files to help you get started.
> =====
> Bill Jones - <><
> Sanger, California
> =====

Date: Tue, 10 Jul 2001 14:55:18 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [102134] Aerials 101
Message-ID: <7c.184280e5.287ca996@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

I think it would be a great idea to look at offering a basic online tutorial in AERIAL 101. Some required readings each week. The idea would not to make everyone experts but to help make them a bit wiser on antenna selection and installation.

One of the problems I see is that many folks do not have the background to ask good questions. This coupled with our tendency to be lazy and not want to read up on the subject(s).

We offered a class locally where we helped people define their needs (antenna wise) based upon type of operations desired. We followed up with antenna basics of lobe patterns for various type ops (local, dx, contesting, etc). A discussion ensued regarding what antennas gave various patterns. Then we reviewed limitations both physical and monetary each operator may have. These limitations would then help us focus on a few realistic designs. From there we would be able to come up with an antenna(s) that would meet our needs and have a chance of success.

There are a lot of learned folks out there that maybe might be willing to take a look at such a class on line

Alan KB7MBI

Date: Tue, 10 Jul 2001 20:04:20 +0100
From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [102135] Re: Aerials 101
Message-ID: <004d01c10973\$2227b080\$58c7883e@duron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Alan has really encapsulated what I was trying to say. If someone does step forward it would be nice if we can apply what we learn to clever software like the MMANA utility.

72/3
Tony G4WIF/K4WIF

----- Original Message -----
From: <ARDUJENSKI@aol.com>

> I think it would be a great idea to look at offering a basic online
tutorial
> in AERIAL 101. Some required readings each week. The idea would not to
make
> everyone experts but to help make them a bit wiser on antenna
selection and
> installation.
<snip>

Date: Tue, 10 Jul 2001 14:55:49 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <rules@bellsouth.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102136] Re: I Have An Idea
Message-ID: <002301c10971\$f25e3820\$4206d10a@endpoints.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've read somewhere that by using DSP techniques, they've been
able to pull signals out reliable as low as 16db BELOW the
noise by some algorithm that looks for aberations in the noise.

Mike

Date: Tue, 10 Jul 2001 15:05:30 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102137] RE: Aerials 101
Message-ID: <GAECLOGOMILPLBGKKPEGEEPDCJAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Let me recommend [highly] the following site.
Courtesy of: Ian C. Purdie VK2TIP

<http://www.electronics-tutorials.com/>

Great site, good review, good way to start, he
has setup pages to help no matter what your
experience level is.

73 oo

=====
Chuck Mabbott

AA8VS

42 19' 52" N 83 28' 32" W

Grid Square EN82gh

Home Page: <http://aa8vs.dhs.org/aa8vs>

FP-113 MI-QRP#1212 Firebirds #2117

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On
Behalf Of
ARDUJENSKI@aol.com
Sent: Tuesday, July 10, 2001 2:55 PM
To: Low Power Amateur Radio Discussion
Subject: Aerials 101

I think it would be a great idea to look at offering a basic
online tutorial
in AERIAL 101.
<snip>

Date: Tue, 10 Jul 2001 12:26:19 -0700
From: Robert Clark <res03db2@gte.net>
To: Randall Jouett <rules@bellsouth.net>
Cc: qrp-1@Lehigh.EDU, fpqrp-1@mpna.com
Subject: [102138] Re: [fpqrp] I Have An Idea
Message-ID: <20010710122619.A23056@darkstar.gte.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

How much of reciever design is built around producing
audio that a person can listen to?

I'd like to see a radio that I could connect to with
spdif over fiber.

With QRP gear getting smaller and lighter all the time, it would be fun to build a setup that could be operated on a tethered helium balloon. Maybe a center fed dipole with the radio remotely triggered?

Fun stuff. [RC]

On Tue, Jul 10, 2001 at 12:20:06PM -0500, Randall Jouett wrote:

>
> Hey Folks,
>
>
> I have an idea, and I'd like your opinion on this
> subject. Some of my friends on this list have
> asked that I bring this subject to the list and
> think it most definately has merit. They also
> told me that I worry to much about being flamed :^).
> Ok. I'll give this a shot, but if the flame wars start
> up over a message like this, then this will absolutely
> be the last time I post a technical message to this
> list. I can already hear the cheers :^).
>
>
> Basically, I've been thinking about using a computer
> and DSP to detect weak signals. What I'm thinking about
> doing is using a differential sampling technique. That is, the
> receiver would sample the frequency a few times, convert it
> to digital, numeric data, and store it in a hash table where it
> can be compared against other samples. The first sample
> would be subtracted from the second sample, and if there is
> a big enough difference, we have signal. If not, we don't. Also,
> the computer could be programed to compare incoming signals
> against known database of valid language, and if the signal is
> not strong enough, you might be able to extrapolate the data
> and still build a complete sentence. Not only that, but with proper
> timing techniques, you'd think you'd be able to still tell what
> is being sent even with minute changes in the signal.
> I'm even thinking about using the data as an input to a neural
> network and training the net to copy CW, and it might also
> be able to help out with data extrapolation.
>
>
> A system like this should be able to copy a CW signal that's
> just above or even slightly below the noise floor :^). A great
> appplication would be using the setup to copy transmitting
> space craft that has left the solar system, and it could also

> shine when used with other radio-astronomy techniques.
> Oh, and it should work really, really well for QRPpppp work,
> too :^).
>
>
> Now, let's see how many attacks and flames I get on this
> message. This is the kind of stuff that we should and have
> to be talking about here if we want to retain our frequencies,
> yet some of you can only think about out doing posters and
> trying to one-up them so that you look superior. If this continues,
> messages like this one will cease to exist on QRP-L, other
> reflectors, and on the air. BTW, this is the kind of stuff we
> are talking about in private e-mail.
>
>
> If you have something negative to say about this idea -- and
> I'm sure that some of you will! -- then please try to use a little
> tact for a change and try not to insult me too much. Just picture
> yourself talking to me in person and ask yourself if you would
> say these things to my face. Maybe that will help.
>
>
> Randy
> --
> HAMateur Radio: AB5NI
>
>
>
> -To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -

Date: Tue, 10 Jul 2001 13:07:13 -0700
From: Charlie Panek <charlie_paneke@agilent.com>
To: qrp-l@Lehigh.EDU
Cc: bowerm@ix.netcom.com
Subject: [102139] Re: Pixie on 20 meters
Message-ID: <3B4B6071.5E124714@agilent.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Michael Bower (bowerm@ix.netcom.com) wrote:

>Does anybody know if there is a "pixie" for 20 meters?

Michael:

It's not exactly a kit, but look at:

<http://www.seanet.com/~panek>

I wrote this up in QRPP a couple years ago. The tough part is getting a crystal for 20m. (though I seem to recall that *someone* was recently selling crystals for 14.060... I just can't recall

who) In any event, also beware that the performance of the Pixie is pretty minimal, and it seems that a few people have had problems getting it to work properly (see my web page). But it certainly is a simple radio, especially if you already have most of the parts. It was fun for me to build and package, but I have to admit, the very low power and limited receiver performance require some patience to use..

If your friend is willing to spend a couple more \$, a good small kit might be a better way to go. There are actually directions to follow, and the results are probably more certain.

--

Charlie Panek
mailto:charlie_paneke@agilent.com
Agilent Technologies Inc.
Everett, Washington

Date: Tue, 10 Jul 2001 14:15:46 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Randall Jouett <rules@bellsouth.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102140] Re: I Have An Idea
Message-ID: <Pine.LNX.4.33.0107101356380.1711-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 10 Jul 2001, Randall Jouett wrote:

>
> Hey Folks,
>
>
> I have an idea, and I'd like your opinion on this
> subject. Some of my friends on this list have

>
>
> Basically, I've been thinking about using a computer
> and DSP to detect weak signals. What I'm thinking about

> A system like this should be able to copy a CW signal that's
> just above or even slightly below the noise floor :^). A great
> application would be using the setup to copy transmitting
> space craft that has left the solar system, and it could also
> shine when used with other radio-astronomy techniques.
> Oh, and it should work really, really well for QRPpppp work,
> too :^).
>

NASA does have a lot of well developed noise reduction hardware
that they use with deep space data that uses a computer.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 10 Jul 2001 13:24:30 -0700
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [102141] Re: I Have An Idea
Message-ID: <F2623s1lNY30kkZIhTr00003e47@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

You can use DSP in lots of different ways, like the
ultra-slow-speed CW done by folks like G3PLX. By
using a bandwidth of a few mHz you can reach way
down in to the noise. You also can't send very fast. :-)

There are better ways of achieving redundancy in
transmitted data than using a dictionary. The utterly
fascinating field of coding theory (no pun intended)
is based on such notions.

Oh, BTW: a PC sound card can record all there is to
record from a communications-grade voice channel.
Hams should know this - it's 2001, after all, and
this is pretty fundamental stuff.

A Pentium 233 MMX (now a doorstop) has more MIPS and
more megaFLOPS than most available DSP chips. My
far-from-state-of-the-art system (Pentium 3, 550 MHz)
requires about 1% of the CPU to receive PSK31. My

grossly inefficient chirp detector requires about 40% of the processor, but produces very interesting results.

This isn't a flame; far from it. But please don't expect people to get excited over re-inventing the wheel.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Tue, 10 Jul 2001 13:37:48 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: qrp-1@lehigh.edu
Subject: [102142] Re: I Have An Idea (fwd)
Message-ID: <Pine.BSF.4.21.0107101337270.12092-100000@shell114.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang,

Having quite a broad background in these topics, I started composing a message that was beginning to get quite long. There's still more to write and I don't have enough time at work.

I will say this. Many of the things Randy mentioned have been attempted, and most have been successfully demonstrated. The first item, spectral occupancy detection has been done on a large scale platform that covers the range of frequencies available to us hams. This effort requires *only* 2500 DSPs (not a misprintf!). Of course, the entire spectrum is being scanned continuously and other interesting things are being done with the information. If one scaled this back to, say a 50 KHz slice, a 1GHz PC might be able to do most of the processing.

The downside to applying these high tech solutions is that it requires knowledge that most non-EE hams don't possess. This is fourth year and graduate level material because it requires a broad mathematics foundation. A person with modest hardware experience can hook up an A/D, DSP, some memory and a DAC. Nowadays, of course, it's cheaper and easier to use a soundcard and PC. Developing the elaborate algorithms to accomplish the processing is real heavy lifting. As a bare minimum, C or C++ proficiency is a requirement, unless you like programming in x86

assembler. =0

73,
Bob - W3CD

Date: Tue, 10 Jul 2001 15:19:40 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [102143] Re: I Have An Idea (fwd)
Message-ID: <Pine.OSF.4.31.0107101502430.3415-1000000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

Randy:

Firstly, thanks for starting a technical thread. From the responses I have seen the reaction seems to vary from "What is sampling?" to "Been there, done that. Yawn. Wake me up when something interesting happens." Now if only we could entice the yawning people to write a tutorial for the "What is sampling" people.

From what little I know Signal processing is a fascinating topic that can be as simple or as complicated as one wants to make it. I remember a few years ago seeing an article in "Scientific American" where the author deliberately introduced random noise into a signal in order to increase intelligibility. The theory was that some of the signal might be too weak for the sensitivity threshold of the recording equipment but signal + noise would be loud enough. The noise could then be filtered out.

DSP can also be as simple or as complicated as one wants to make it. For example a very simple scheme is "Forward Averaging" where a sample at time t_0 and another at t_0+h (where h is small) are averaged. If the noise is random averaging should tend to cancel the noise somewhat and the average signal should be cleaner than the starting sample. Of course, the average signal in this scheme will be out of phase with the original sample by a time factor of h . (This may or may not be important, it depends on the application.)

In terms of detecting signals I would start with something simple like CW. Perhaps there is some literature on "Coherent CW" that might talk about using DSP. Since CCW is computer generated you have the added benefit of having all the dahs and dits precisely spaced so the software should be able to predict when the next sound should happen.

This is a topic I too am interested in so with out further ado I will shut up and let the real experts have a go at it.

Once again, thanks for the technical post.

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
http://duke.usask.ca/~buydens
VE5RDV

Did you hear about the two antennas that got married? The wedding was a disaster but the reception was great!

Date: Tue, 10 Jul 2001 17:37:11 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [102144] I Have An Idea (fwd)
Message-ID: <GAECLOGOMILPLBGKKPEGEEPHCJAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

There is a lot of good information on DSP items

<http://www.arrl.org/tis/info/dsp.html#signals>

I don't want to be acused of reinventing the wheel
but while over my head it is still fun to plow through
an I've learned more than I knew before. That is what
the hobby is all about.

There is also at the TAPAR site

<http://www.tapr.org/sdr/>

Enjoy!!!

=====

Chuck Mabbott

AA8VS

42 19' 52" N 83 28' 32" W

Grid Square EN82gh

Home Page: <http://aa8vs.dhs.org/aa8vs>

FP-113 MI-QRP#1212 Firebirds #2117

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On

Behalf Of

Brian.Buydens@usask.ca

Sent: Tuesday, July 10, 2001 5:20 PM

To: Low Power Amateur Radio Discussion

Subject: Re: I Have An Idea (fwd)

Randy:

Firstly, thanks for starting a technical thread. From the responses I have seen the reaction seems to vary from "What is sampling?"

to "Been there, done that. Yawn. Wake me up when something interesting happens."

Date: Tue, 10 Jul 2001 17:11:33 +0000

From: "Steven Weber" <kd1jv@moose.ncia.net>

To: qrp-l@lehigh.edu

Subject: [102145] 2M QRP rig Design

Message-ID: <200107102142.f6ALgoc28796@wolf.ncia.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

I figured the best way to develop a 2M qrp rig design would be in a modular fashion. No sense trying to do everything at once.

Logically, the first module should be the LO. So, I just finished a cpu controled PLL, with a 100-200 Mhz VCO, LCD display and tunes in 10 KHz min steps. I have a SBL-1, DBDM, on the output of the VCO, which can be used to key, modulate or control the output amplitude of

the VCO signal. It also has pin selectable offsets of 10.7 Mhz and 14 Mhz, so I can try a DC Rx, a super het with 10.7 Mhz IF or use with a 20 M receiver.

Unfortunately, the VCO board uses about \$30.00 worth of parts. Might have to come up with a cheaper way to do this eventually, but it's a start. I'll try to get more details of this on the web page sooner or later, once we're a bit farther along.

72,
Steve, KD1JV in the White Mountains of New Hampshire
"Melt Solder"
<http://www.qsl.net/kd1jv/index.html>

Date: Tue, 10 Jul 2001 16:57:27 -0500 (EST)
From: <igeq100@iupui.edu>
To: Randall Jouett <rules@bellsouth.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [102146] Re: I Have An Idea
Message-ID: <Pine.GS0.3.96.1010710165327.3724E-100000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Randy -

Your suggestion is certainly a good one and follows the current trend to do the job in software. MFJ has done a similar thing in hardware - it is their "Deluxe Noise Canceller", which uses two antennas - one on which you receive the desired signal, and one which you use to sample noise, or whatever you wish to subtract from the signal channel. I had one once, and I must confess that I found it difficult to operate "in the heat of battle." I am sure that a software version could be dynamically active and be much easier to use.

72,

Rich Meiss, WB9LPU

Date: Tue, 10 Jul 2001 16:06:12 -0600
From: "Jerry McCollom WOMC" <w0mc@club-pre.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [102147] Don't forget -- Cub Foxii Tonight!
Message-ID: <000f01c1098c\$88ea6a60\$a3ff999c@fcjmc67481>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Hounds!

Don't forget that the hunt is on tonight for Cub Foxii at 0200Z! Look for me, WOMC around 14.056+/- QRM and Tony, KB9YIG at 14.062+/- QRM. So far, so good on the afternoon thunderstorm threat, so I plan on seeing you at 0200!

72,
Jerry
WOMC

End of QRP-L Digest 2246

